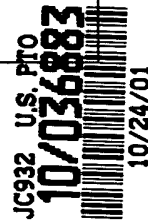


IN THE U.S. PATENT AND TRADEMARK OFFICE
Patent Application Transmittal Letter

COMMISSIONER FOR PATENTS
Washington, D.C. 20231



mitted herewith for filing under 37 CFR 1.53(b) is a(n): ☒ Utility ☐ Design
☒ original patent application,
☐ continuation-in-part application

INVENTOR(S): Mark Andrew Troll

TITLE: PIEZOELECTRICALLY DRIVEN, LIQUID-ACTUATED OPTICAL CROSS-BAR SWITCH

Enclosed are:

- ☒ The Declaration and Power of Attorney. ☒ signed ☐ unsigned or partially signed
☒ 11 sheets of drawings (one set) ☐ Associate Power of Attorney
☐ Form PTO-1449 ☒ Information Disclosure Statement and Form PTO-1449
☐ Priority document(s) ☐ (Other) (fee \$)

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	27 — 20	7	X \$18	\$ 126
INDEPENDENT CLAIMS	4 — 3	1	X \$84	\$ 84
ANY MULTIPLE DEPENDENT CLAIMS	0		\$280	\$ 0
BASIC FEE: Design (\$330.00); Utility (\$740.00)				\$ 740
TOTAL FILING FEE				\$ 950
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 950

Charge \$ 950 to Deposit Account 50-1078. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 50-1078 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 50-1078 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. A duplicate copy of this sheet is enclosed.

"Express Mail" label no. ET844738658US

Date of Deposit Oct. 24, 2001

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

By Judith E. Brown
Typed Name: Judith E. Brown

Respectfully submitted,

Mark Andrew Troll

By

Terry McHugh

Attorney/Agent for Applicant(s)

Reg. No. 33,261

Date: Oct. 24, 2001

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Loveland, Colorado 80537-0599

PATENT APPLICATION
Attorney Docket No. 10010046-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

This is a U.S. Patent Application for:

Title Line #1: * PIEZOELECTRICALLY DRIVEN, LIQUID-ACTUATED
Title Line #2: * OPTICAL CROSS-BAR SWITCH

Inventor: * Mark Andrew Troll
Address: * 6317 - 18th Ave NE, Seattle, Washington 98115
Citizenship: * US

"Express Mail" mailing label number: ET844738658US

Date of Deposit: October 24, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

By Judith E. Brown
Typed name: Judith E. Brown